



# Pervasive Collaborative Computing Environment (PCCE)

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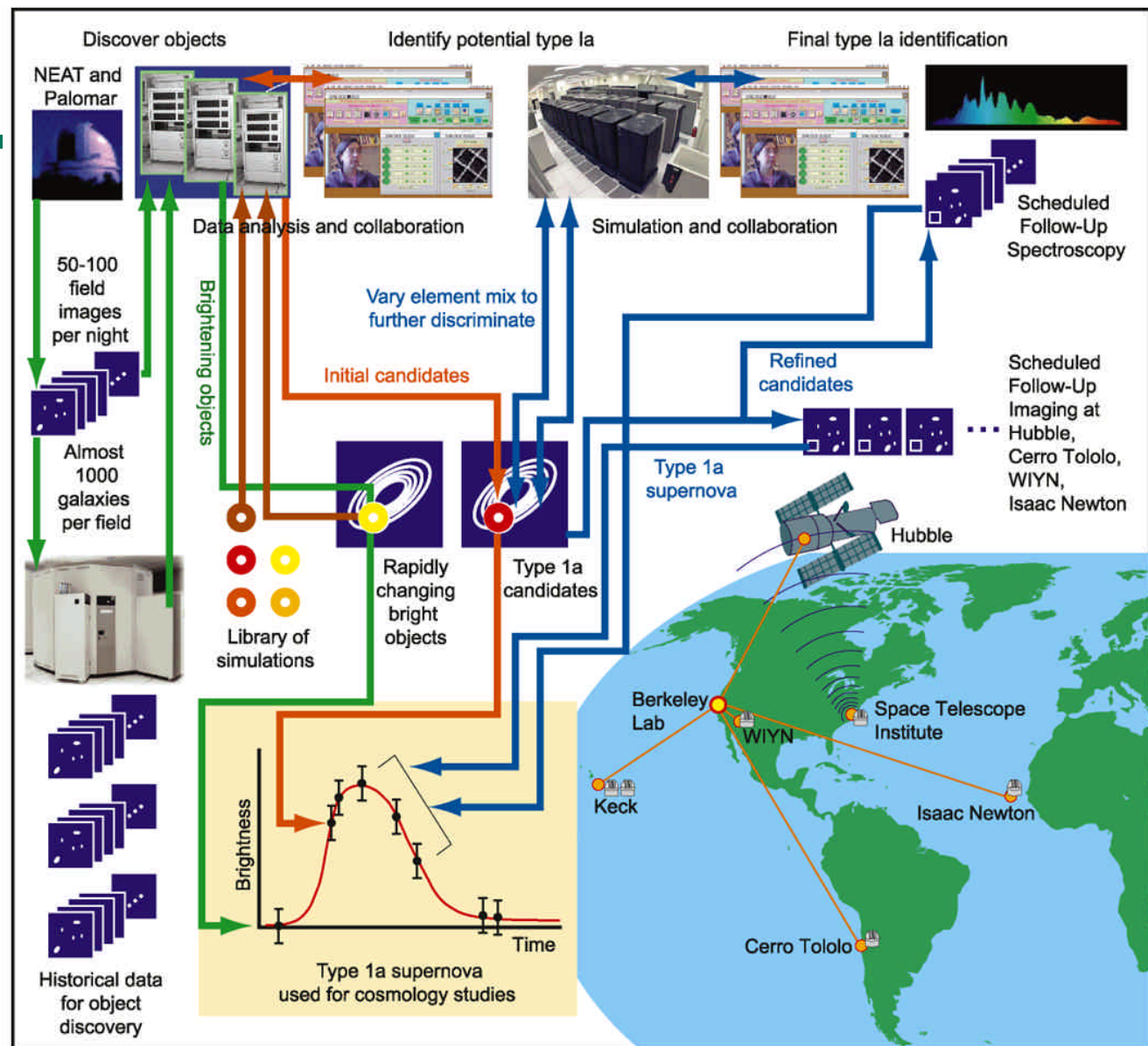
Distributed Systems Department  
Lawrence Berkeley National Laboratory

# PCCE Goals



- ? Focus on providing collaboration tools that enable connectivity and collaboration on a 'continuous' basis
- Target compute intensive collaborations
- ? Leverage off of the Grid computing environment (e.g. security and directory services)
- ? Develop workflow tools that will enable coordination of Grid computing processes and human tasks in a workflow framework
- ? Support the continuum of collaborative interaction (synchronous and asynchronous)
- Web-based interface for ease of use/installation

# Supernova Factory Collaboration



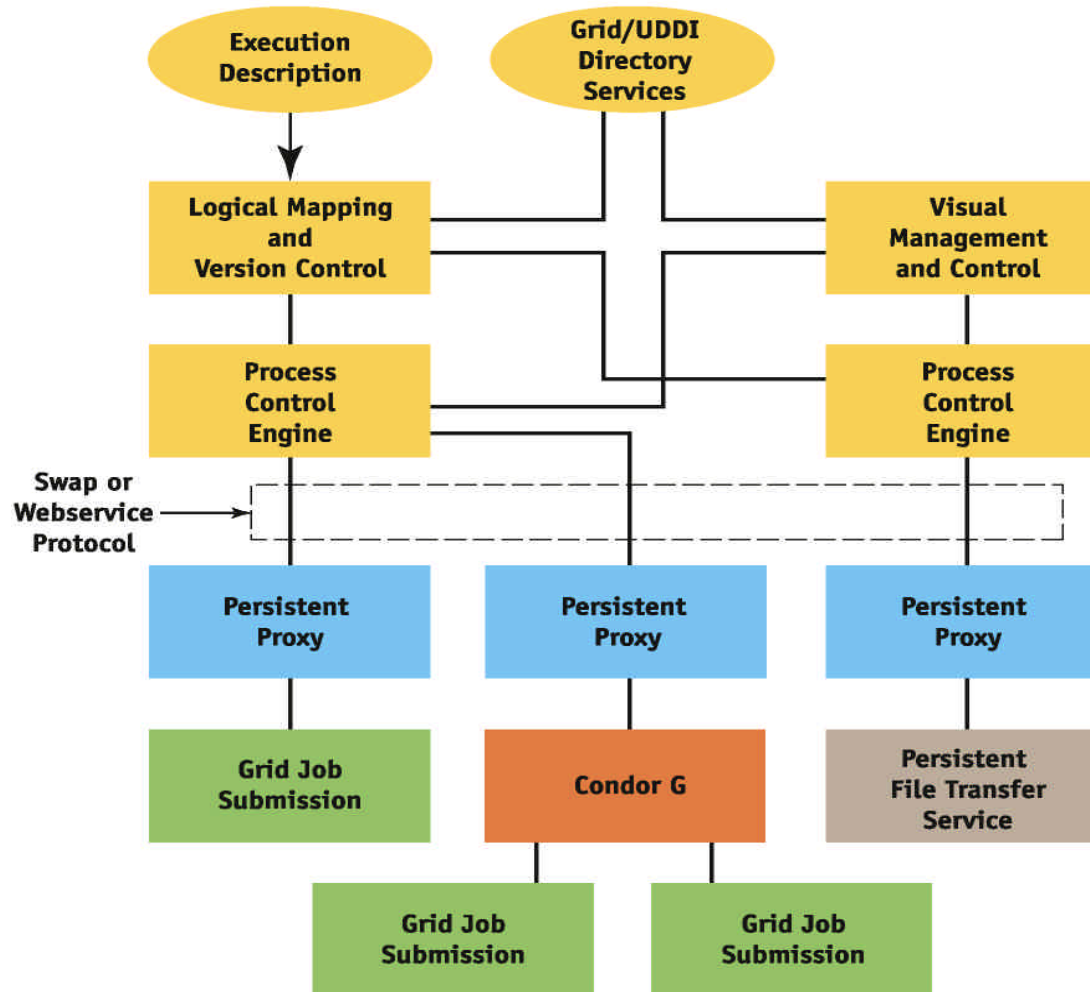
# Initial Target Activities

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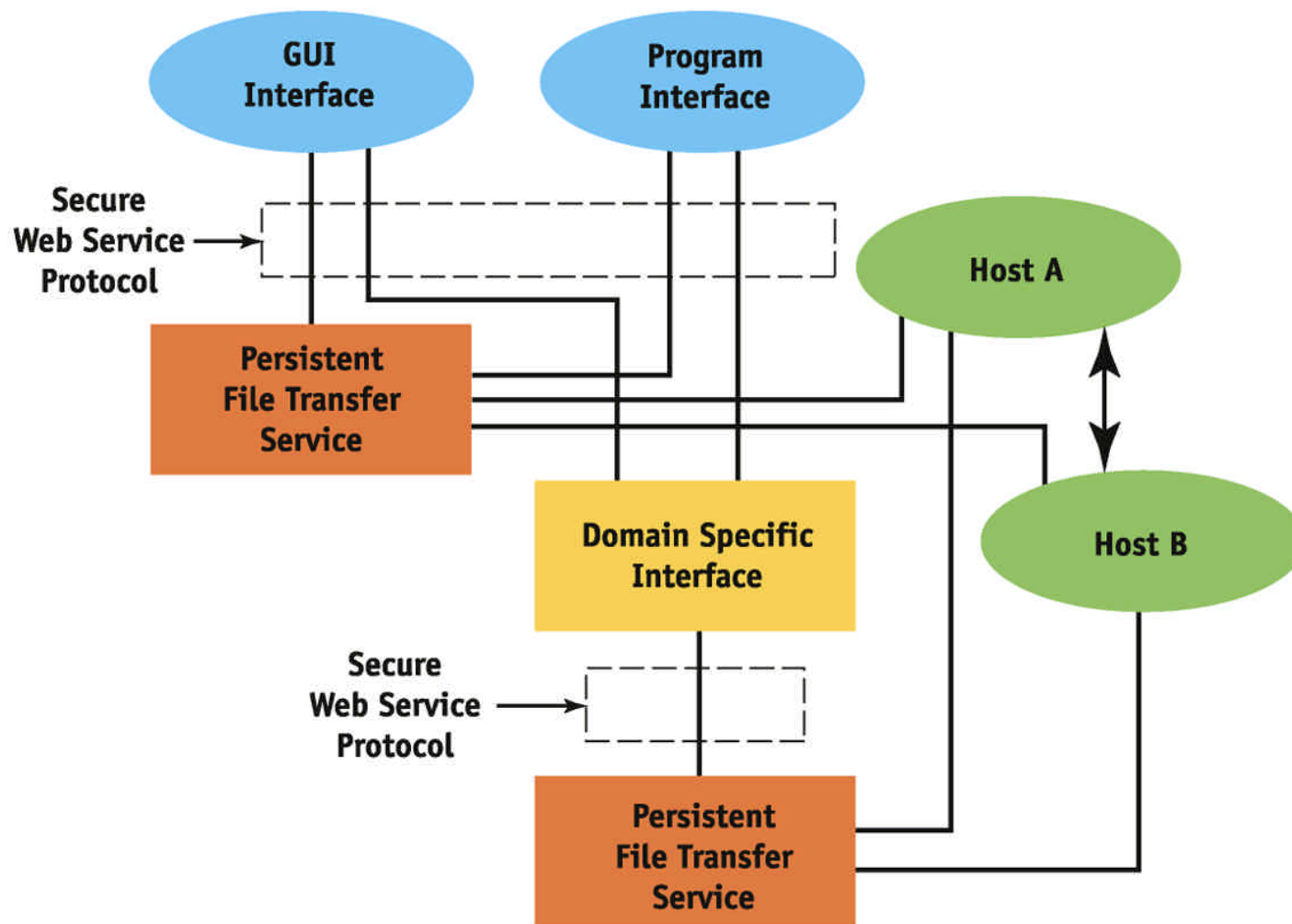


- Submission and tracking of computational workflow
- Reliable movement of data files
- Human interaction with the computational workflow
- Human-to-human interactions
- File-sharing

# PCCE Workflow



# Reliable/Persistent File Transfer Services



# PCCE File Sharing



Netscape: CollaboratoryGroup

File Edit View Go Communicator Help

Internet Lookup New&Cool

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: <http://shaggy.lbl.gov:62424/pub/bscw.cgi/0/52> What's Related

**BSCW**

File Edit View Options GoTo Help

Home Public Clipbd Waste Addr Calend

Your location: :anonymous / CollaboratoryGroup

Marcia's Workspace

cut

CollaboratoryGroup

This is where members of the Collaboratory Group can share documents and collaborate.

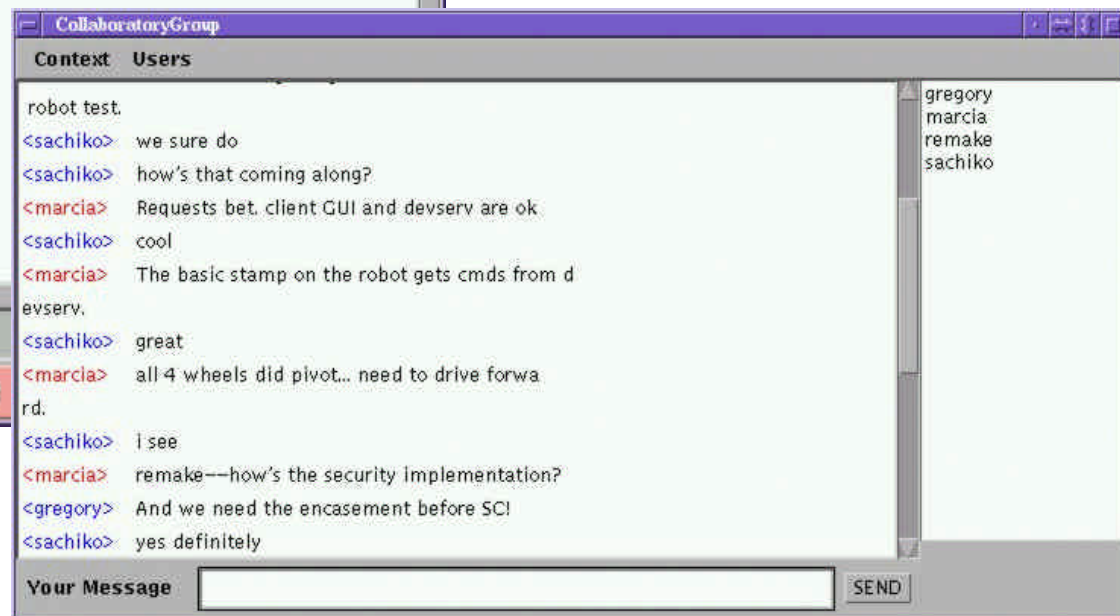
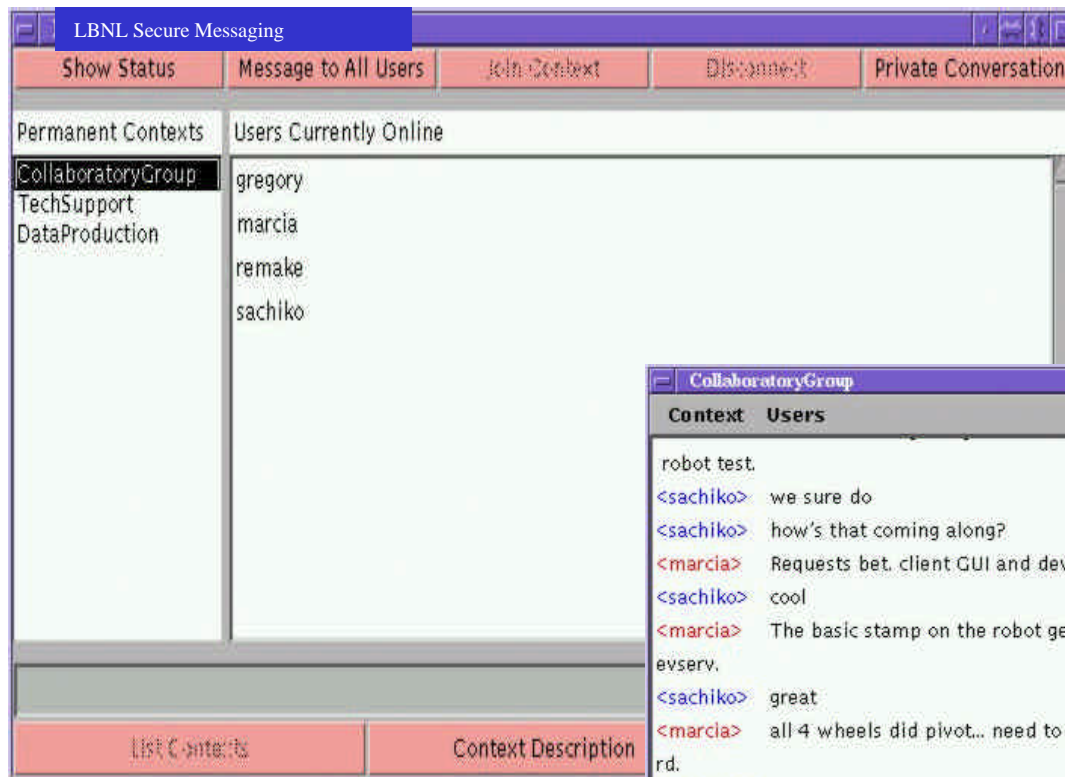
Name	Shared Note	Rating	Owner	Date	Events	Action
<input type="checkbox"/> <b>Marcia's Home Page</b> This URL was added to test adding objects to the public workspace by a member. <a href="http://www-itg.lbl.gov/%7emperry">http://www-itg.lbl.gov/%7emperry</a>			marcia	2001-09-14 11:26		
<input type="checkbox"/> <b>Remote Camera Control System</b> This is the web page for the LBNL remote camera control system. <a href="http://www-itg.lbl.gov/mbone/devserv">http://www-itg.lbl.gov/mbone/devserv</a>			marcia	2001-09-11 14:23		
<input type="checkbox"/> <b>Canon VCC4 API</b> This is the API for communicating w/ the Canon VCC4 camera.			marcia	2001-09-11 14:22		
<input type="checkbox"/> <b>Network Host Information</b>			marcia	2001-09-11 14:19		

100%

National Collaboratories Program Meeting



# PCCE Messaging





# Project Milestones

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- Year 1
  - Evaluate existing collaboration tools
  - Prototype integration of Grid services (file transfer service)
  - Install Condor-G and API to Condor scheduler
  - Prototype workflow model for Supernova Factory
- Year 2
  - Reliable and recoverable event reporting in Condor's DAGman
  - Integrate Grid services
  - Integrate WebDAV-based services and SOAP interfaces for workflow